Product data sheet Characteristics

LC1F1700F7

TeSys F contactor - 3P (3 NO) - AC-1 - <= 440 V 1700 A - coil 110 V AC





Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[le] rated operational current	1700 A (at <40 °C) at <= 440 V AC AC-1
[Uc] control circuit voltage	110 V AC 40400 Hz

Complementary

Complementary		
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	
[Ith] conventional free air thermal current	1700 A (at 40 °C)	
Rated breaking capacity	2550 A conforming to IEC 60947-4-1	
[lcw] rated short-time withstand current	10000 A 40 °C - 10 s 7500 A 40 °C - 30 s 5500 A 40 °C - 1 min 4200 A 40 °C - 3 min 3000 A 40 °C - 10 min	
Associated fuse rating	1600 A gG at <= 440 V	
Average impedance	0.1 mOhm - Ith 1700 A 50 Hz	
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C 1000 V conforming to UL 60947-4-1	
Power dissipation per pole	200 W AC-1	
Mounting support	Plate	
Standards	EN 60947-1 IEC 60947-4-1 JIS C8201-4-1 EN 60947-4-1 IEC 60947-1 UL 60947-4-1 CSA C22.2 No 60947-4-1	
Product certifications	UL CSA CCC CB Scheme EAC	

Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end	
	Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end	
	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end	
	Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: bar 3 cable(s) - busbar cross section: 100 x 5 mm Power circuit: bolted connection	
Tightening torque	Control circuit: 1.2 N.m Power circuit: 58 N.m	
Control circuit voltage limits	Operational: 0.851.1 Uc 40400 Hz (at 55 °C) Drop-out: 0.30.5 Uc 40400 Hz (at 55 °C)	
Inrush power in VA	2200 VA 40400 Hz cos phi 0.9 (at 20 °C)	
Hold-in power consumption in VA	36 VA 40400 Hz cos phi 0.9 (at 20 °C)	
Heat dissipation	36 W	
Operating time	100170 ms opening 4075 ms closing	
Maximum operating rate	600 cyc/h 55 °C	
Compatibility code	LC1F	

Environment

Protective treatment	ТН
Ambient air temperature for operation	-540 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4060 °C
Operating altitude	3000 m without derating
Height	332 mm
Width	438 mm
Depth	238.6 mm
Net weight	30 kg

Packing Units

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Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Weight	30 kg	
Package 1 Height	39.5 cm	
Package 1 width	50 cm	
Package 1 Length	62 cm	

Offer Sustainability

Green Premium product
REACh Declaration
Compliant EEU RoHS Declaration
Yes
₫Yes
☑ China RoHS Declaration
Product Environmental Profile
☐ End Of Life Information
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty 18 months	
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